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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/805,961	03/22/2004	Jong-Whan Cho	21C-0119	2751
23413 CANTOR CO	7590 10/17/200 I BURN I I P	8	EXAM	INER
20 Church Street			CHOWDHURY, AFROZA Y	
22nd Floor Hartford, CT 0	6103		ART UNIT	PAPER NUMBER
			2629	
			NOTIFICATION DATE	DELIVERY MODE
			10/17/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptopatentmail@cantorcolburn.com

Application No. Applicant(s) 10/805 961 CHO ET AL

	10,000,001	OTTO ET TIES					
Office Action Summary	Examiner	Art Unit					
	AFROZA Y. CHOWDHURY	2629					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D) - Extrasions of time may be available under the provisions of 37 CFR 11 after 55% (6) MONTHS from the mailing date of the scommunication. If NO period for reply is specified above, the maximum statutory period - Failure to reply within the soil or exheduled period for reply will by statute Any reply received by the Cffice later than three months after the mailing - aemed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 01 Ju	ılv 2008.						
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.							
3) Since this application is in condition for allowar		secution as to the	merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
·							
Disposition of Claims							
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.							
4a) Of the above claim(s) <u>5-9,11,12 and 17-30</u> is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>13-16</u> is/are allowed.							
6)⊠ Claim(s) <u>1-4 and 10</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examine	_						
		Evaminar					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
The path of declaration is objected to by the Ex	animer. Note the attached Office	ACTION OF IONIT PT	0-152.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:							
1.⊠ Certified copies of the priority documents have been received.							
Certified copies of the priority documents have been received in Application No							
 Copies of the certified copies of the prior 	rity documents have been receive	ed in this National	Stage				
application from the International Bureau	ı (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	of the certified copies not receive	d.					
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Day	(PTO-413) ate.					
3) information Disclosure Statement(s) (PTO/S6/08)	5) Notice of Informal F						
Paper No/s //Mail Date	6) ☐ Other: .						

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DETAILED ACTION

Response to Amendment

 Applicant's amendment received on July 1st, 2008 has been entered. Claims 1-30 are currently pending and claims 5-9, 11, 12, and 17-30 are withdrawn from further consideration. Applicant's argument is addressed herein below.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over
 May (US Patent 4,454,417) in view of Colgan et al. (US Patent 6,529,189).

As to claim 1, May discloses a light pen comprising: a body (fig. 2);

a photo detective module (figs. 1, 5(30)) that is configured to detect a light inputted from an external source to output a sensing signal of which level is changed in accordance with an intensity of the light (col. 2, lines 45-56), the photo detective module being disposed in the body (fig. 1), and the photo detective module is exposed to an exterior to the body (figs. 1, 2, 5, col. 8, lines 11-21); and

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a control module that is configured to output a control signal in response to the sensing signal when the level of the sensing is higher than a level of a reference signal (fig. 5, col. 5, lines 3-7).

May does not teach a light generating module that is configured to receive a driving power signal in response to the control signal to generate a light.

Colgan et al. teaches a stylus that has a light generating module (fig. 2(18), LED) that is configured to receive a driving power signal (fig. 3, col. 3, lines 40-45) in response to a control signal to generate a light (fig. 3, col. 3, lines 35-40).

Therefore, it would have been obvious to one skill in the art at the time of the invention was made to modify May's light pen using the idea of Colgan et al. of including light generating module to make a light pen with improved operation where a detector detects a first light to output a sensing signal and a control module outputs a driving signal in response to the sensing signal to generate a second light.

As to claim 2, it is an obvious choice of design to make a light pen with a light generating module that includes a light emitting diode for generating a white light.

 Claims 3, 4 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over May (US Patent 4,454,417) in view of Colgan et al. (US Patent 6529189) and in further view of Traub (Us Patent 3911270). Application/Control Number: 10/805,961

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As to claim 3, May (as modified by Colgan et al.) discloses a light pen including a photo detective module (figs. 1, 5(30)).

May (as modified by Colgan et al.) does not explicitly teach a light pen wherein the photo detective module includes a photo transistor or a photo diode.

Traub teaches a light pen wherein the photo detective module includes a photo transistor or a photo diode (col. 2, lines 38-42).

Therefore, it would have been obvious to one skill in the art at the time of invention was made to modify the light pen of May (as modified by Colgan et al. using Traub's idea of using diode in order to make a light pen with reduced cost and weight.

As to claims 4 and 10, May (as modified by Colgan et al.) discloses a stylus that includes a tip (fig. 2, col. 3, lines 10-11, in Colgan et al.) and a switch (fig. 1 and 2 (12,14), col. 3, lines 25-34, buttons in Colgan et al.) applies an operation signal to the control module in response to the movement of the tip (fig. 2(16), col. 3, lines 10-11, in Colgan et al.).

May (as modified by Colgan et al.) does not teach any opening at the end of the body and a tip having a cylinder flange shape. Making a cylinder flange shape tip is a design choice.

Traub teaches a light pen wherein an end of the body includes an opening (fig. 1(16)) through which the light exits and the tip (fig. 1(14), col. 2, lines 25-31) comprises an elastic member (fig. 1(36), col. 2, lines 54-58).

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Therefore, it would have been obvious to one skill in the art at the time of invention was made to combine Traub's light pen with the light pen of stylus of May (as modified by Colgan et al.) in order to make a light pen that would operate with a liquid crystal display device.

Allowable Subject Matter

- Claims 13 –16 are allowable.
- 6. The following is a statement of reasons for the indication of allowable subject matter:

None of the prior art references, alone or in combination, does not show "a driving pulse generating module that is configured to generate a first driving power pulse having a first frequency during a first time period and a second driving power pulse having a second frequency during a second time period, the driving pulse generating module being disposed in the body; and a light generating module that is configured to generate a first light in response to the first driving power pulse and a second light in response to the second driving power pulse, the first light flickering at a third frequency, and the second light flickering at a fourth frequency" in combination with other limitations of claim 13.

Claims 14-16 are allowable since those are dependent on independent claim 13.

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Response to Arguments

 Applicant's arguments with respect to claims 1, 2, 3, 4, and 10 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to AFROZA Y. CHOWDHURY whose telephone number is (571)270-1543. The examiner can normally be reached on 7:30-5:00 EST, 5/4/9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Supervisory Patent Examiner, Art Unit 2629